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WHAT IS CLAIMED IS:

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1. A method of identifying a candidate APC and axin pathways modulating agent, said method comprising the steps of:

- (a) providing an assay system comprising a LOC169505 polypeptide or nucleic acid;
- (b) contacting the assay system with a test agent under conditions whereby, but for the presence of the test agent, the system provides a reference activity; and
- (c) detecting a test agent-biased activity of the assay system, wherein a difference between the test agent-biased activity and the reference activity identifies the test agent as a candidate APC and axin pathways modulating agent.
 - 2. The method of claim 1 wherein the assay system comprises cultured cells that express the LOC169505 polypeptide.

3. The method of claim 2 wherein the cultured cells additionally have defective APC and axin function.

- 4. The method of claim 1 wherein the assay system includes a screening assay comprising
 a LOC169505 polypeptide, and the candidate test agent is a small molecule modulator.
 - 5. The method of claim 4 wherein the assay is a kinase assay.
- The method of claim 1 wherein the assay system is selected from the group consisting
 of an apoptosis assay system, a cell proliferation assay system, an angiogenesis assay system, and a hypoxic induction assay system.
 - 7. The method of claim 1 wherein the assay system includes a binding assay comprising a LOC169505 polypeptide and the candidate test agent is an antibody.
 - 8. The method of claim 1 wherein the assay system includes an expression assay comprising a LOC169505 nucleic acid and the candidate test agent is a nucleic acid modulator.

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9. The method of claim 8 wherein the nucleic acid modulator is an antisense oligomer.

- 10. The method of claim 8 wherein the nucleic acid modulator is a PMO.
- 5 11. The method of claim 1 additionally comprising:
 - (d) administering the candidate APC and axin pathways modulating agent identified in (c) to a model system comprising cells defective in APC and axin function and, detecting a phenotypic change in the model system that indicates that the APC and axin function is restored.

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- 12. The method of claim 11 wherein the model system is a mouse model with defective APC and axin function.
- 13. A method for modulating a APC and axin pathways of a cell comprising contacting a cell defective in APC and axin function with a candidate modulator that specifically binds to a LOC169505 polypeptide, whereby APC and axin function is restored.
 - 14. The method of claim 13 wherein the candidate modulator is administered to a vertebrate animal predetermined to have a disease or disorder resulting from a defect in APC and axin function.
 - 15. The method of claim 13 wherein the candidate modulator is selected from the group consisting of an antibody and a small molecule.
- 25 16. The method of claim 1, comprising the additional steps of:
 - (e) providing a secondary assay system comprising cultured cells or a non-human animal expressing LOC169505,
 - (f) contacting the secondary assay system with the test agent of (b) or an agent derived therefrom under conditions whereby, but for the presence of the test agent or agent derived therefrom, the system provides a reference activity; and
 - (g) detecting an agent-biased activity of the second assay system,

wherein a difference between the agent-biased activity and the reference activity of the second assay system confirms the test agent or agent derived therefrom as a candidate APC and axin pathways modulating agent, WO 2004/047754 PCT/US2003/037557

and wherein the second assay detects an agent-biased change in the APC and axin pathways.

- 17. The method of claim 16 wherein the secondary assay system comprises cultured cells.
- 18. The method of claim 16 wherein the secondary assay system comprises a non-human animal.
- 19. The method of claim 18 wherein the non-human animal mis-expresses a APC and10 axin pathways gene.
 - 20. A method of modulating APC and axin pathways in a mammalian cell comprising contacting the cell with an agent that specifically binds a LOC169505 polypeptide or nucleic acid.
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 21. The method of claim 20 wherein the agent is administered to a mammalian animal predetermined to have a pathology associated with the APC and axin pathways.
- 22. The method of claim 20 wherein the agent is a small molecule modulator, a nucleicacid modulator, or an antibody.
 - 23. A method for diagnosing a disease in a patient comprising:
 - (a) obtaining a biological sample from the patient;
 - (b) contacting the sample with a probe for LOC169505 expression;
- 25 (c) comparing results from step (b) with a control;

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- (d) determining whether step (c) indicates a likelihood of disease.
- 24. The method of claim 23 wherein said disease is cancer.
- 30 25. The method according to claim 24, wherein said cancer is ovarian or pancreatic cancer.